



The ILLINOIS ENGINEER

ILLINOIS SOCIETY OF PROFESSIONAL ENGINEERS
INCORPORATED

Affiliated with the National Society of Professional Engineers
CHAMPAIGN, ILLINOIS



JUNE XXVI, NO. 8

SUMMER ISSUE

AUGUST, 1950

OFFICIAL NOTICE

sions to the Schedule of Minimum Fees and Salaries
Ordered by the I.S.P.E. Board of Direction

At the June meeting of the National Society in Boston N.S.P.E. Board of Direction was warned that a re-decision by the U. S. Supreme Court makes it inadvisable that any statement or possible interpretation of statement in a State Society's Schedule of Minimum Fees and Salaries should appear to make the schedule mandatory or coercive. In the case of the U. S. Real Estate Board, the Court decided that the Board, in establishing a certain fee schedule, was restricting competition and hence violating the laws pertaining thereto. Subsequently, in order to avoid any appearance of such action on the part of the Society, the Board of Direction of the I.S.P.E. has instructed that the following paragraph be deleted from the Society's fee and salary sched-

"Violation. Non-compliance with the terms of this schedule will be considered as unethical practice by the Illinois Society of Professional Engineers."

The paragraph appears as Paragraph 12, on pages 7 and 12 of the Schedule. Also, in the third line from the bottom on page 21 of the schedule, the word "prescribed" will be changed to the word "recommended" so that the sentence will read, "The salaries as recommended are established . . ."

While the Society has always looked upon the Schedule as a recommendation only, in order that there can be no misconception concerning this fact, the Board has been instructed that the title of the schedule be changed to "Recommended Schedule of Minimum Fees and Salaries for General Engineering Services Approved by the Illinois Society of Professional Engineers."

The above changes will be made in the printed schedule when it is next revised. In the meantime the present version of the schedule shall be used with the above changes included.

HELP WANTED

Civil Engineering aide, knowledge of surveying and drawing desirable, young single, free to travel, permanent position. Headquarters, Springfield. Student or recent graduate. For further information, please write Illinois Society of Professional Engineers, 631 E. Green Street, Champaign, Illinois.

THE PRESIDENT'S MESSAGE

Truly I was gratified when I read the published Chapter minutes in the July ILLINOIS ENGINEER and noted how active the Chapters there on record had been along several lines and to what extent they were discharging the several responsibilities which had been delegated to them in recent months.

If the other Chapters have done or are doing as well, then State-wide we are definitely making progress towards our Society's objectives.

However, in other fields there is plenty of opportunity for greater and more expanded activity. For instance, the Korean situation points up the need for more action in the field covered by our Committees on Civilian Defense, formerly Committees on Military Affairs but changed in name and scope by our National Convention at Boston in June.

There is still so much to be accomplished that we cannot be complacent with what we have done or are doing, no matter how meritorious it may be.

We must all keep the bellows of publicity pumping, the coals in the furnace of public interest burning at white heat, and the hammers of our energies ringing on the anvils of established principles if we are to succeed in forging from our crass materials a high quality of professional welfare.

GEORGE E. EKBLAW, President.

THE LEGISLATIVE ANALYST

H. A. SPAFFORD

Chairman, Legislative Analyst Committee

As members of a professional society, we are all interested in improving the professional status of engineers. Most of us feel that the primary prerequisite to attainment of our professional objectives is the increase of membership in the Society both on a state and a national level. When we attain professional unity we will be well on the road to our objectives.

We should all ask ourselves this question. Why does I.S.P.E. now have only approximately 1800 members when there are more than 15,000 registered professional engineers in Illinois? Certainly most of these registered engineers know of the existence of I.S.P.E. If we will be very realistic in our search for an answer to the above

SUBSCRIPTION RATES

\$2.00 per year in advance to members of the Illinois Society of Professional Engineers. \$4.00 per year in advance to non-members in U.S.A. and its possessions, Canada, and Mexico. Foreign \$6.00. Single copies 40c.

Published by the Illinois Society of Professional Engineers, Inc., at 631 East Green Street, Champaign, Illinois.

Entered as Second Class Matter April 27, 1949, at the Post Office, Champaign, Illinois.

question, we will arrive at the frank but obvious conclusion that our society has not yet sufficiently demonstrated its value to this great group of non-member professional engineers in Illinois. We would not belittle the diligent and worth-while work of our officers and committees, both past and present, which have accomplished much in establishing the Society, attainment of professional registration, and building the groundwork for professional recognition. *Nevertheless these efforts have obviously not been sufficient.* We must increase our activities to produce more concrete benefits for professional engineers and thus demonstrate conclusively that membership in the Society pays dividends.

The establishment of a full-time legislative analyst service on a state level by the Society should materially increase the tangible benefits which a membership produces. Full-time representation at the General Assembly by a successful and highly respected member of the engineering profession will surely help to establish our professional identity in the eyes of the legislators and the public. Benefits from these contacts should accrue to both employed and employer engineers. Society membership should benefit correspondingly.

A five or ten dollar contribution by present society members seems a small price to pay for this extra effort, when it is common knowledge that every labor union member is paying much more than this for a similar legislative purpose.

As engineers, let us be realistic. If we want to make progress, we must put forth some effort! Not just a few, but all of us must concentrate our energies. If you have not made your contribution yet, write a check now, payable to Legislative Analyst Fund I.S.P.E. and mail it to your Chapter Legislative Analyst Chairman. If you do not know his name, send it to your chapter president or to the State headquarters.

Let's go places, engineers! Let's make our Society a professional success!

KEWANEE HOLDS PICNIC

Kewanee Chapter with an assist from the weather man, held its annual golf outing on Saturday, July 29th, at the Midland Country Club south of Kewanee. Golf began at 10:00 A.M., buffet luncheon at 12:45 and golf all afternoon. The swimming pool added much to the scenery but the non-golfers did more sitting in the shade than swimming.

C. E. "Ted" Bronson, President Kewanee Chapter, presided at the chicken dinner which was excellent in both quality and quantity. Ted did a thorough and convincing job of insulting everyone present. Ed. Quirk passed out the prizes, from the bogies figured by John Fulper.

Bob Stanley, who was not only seen but also heard, and his committee of Quirk and Sorenson did a bang up job and are to be congratulated.

Among the visitors were "Bill" Haefliger and a car load from the Rock River Chapter.

VOX SECRETARII

by P. E. ROBERTS

Membership

In the May issue, a chart was given in this column showing the membership by Chapters this year compared with the same time last year. The last column of the chart was headed "Percentage Increase." This column should have read "Percentage of New Members to Present Chapter Membership." Since an objection has been voiced by a member of the Society and since it is our desire to keep everyone happy, we are reproducing the whole chart corrected.

Chapter	Chapter This Year	Members Last Year	Plus	Percent- age of new Mem- bers to present Chapter mem- ber- ship	Percent- age In- crease
Ambraw.....	42	41	1	2	2.4
Capital.....	189	116	73	39	62.9
Central Illinois.....	143	140	3	2	2.1
Champaign County....	143	125	18	12	14.4
Chicago.....	483	402	81	17	20.1
DuKane.....	59	39	20	34	51.3
Egyptian.....	56	53	3	5	5.7
Illinois Valley.....	56	54	2	4	3.7
Joliet.....	63	49	14	22	28.5
Kewanee.....	60	51	9	15	17.6
Lake County.....	78	71	7	9	9.9
Madison County.....	48	46	2	4	4.3
Peoria area.....	41	28	13	32	46.4
Rockford.....	63	—	—	—	—
Rock River.....	108	161	10	—	—
St. Clair.....	84	81	3	4	3.7
Miscellaneous.....	92	265	-173	—	—
Total.....	1808	1722	86	4.76	4.99

Dues Payment

The prompt payment of dues at the beginning of each year is the best means of reducing the number of dropouts necessary every year end for delinquency. Last August 1st, there were 210 in arrears and 109 delinquents; this year on July 29th there were 197 in arrears and eighty-two delinquents. To equal last year's figures, between now and December 31st, 84 current dues must be collected. Chapter Secretaries can help by reminding those who have not paid to pay their 1950 dues.

Miscellany

Routine air mail service these days is breathtaking. A letter from Anchorage, Alaska, postmarked July 15th reached our office on July 17th. . . . From his letter Professor Babbitt has added a large list of new words to his already extensive vocabulary. He finished his studies at Oak Ridge the last week in July and he and Mrs. Babbitt are on their way to New England and thence down the East Coast to Florida. . . . Patricia Whelan who has been with us in the office during the past year, left on August 8th to make final preparations for her marriage. We wish her and her future husband good luck, good health and prosperity. . . . Seed corndetasseling is in full swing throughout Central Illinois.



"AND THE BAND PLAYED AND THE KEYS TO THE CITY . . ."

Capital Chapter joined Central Illinois Chapter in Decatur to visit Staley's on June 29, last, they were met with flags flying and playing. In the picture, taken at the Interurban Depot, are from left to right, J. P. Murphy, President of Capital Chapter, Tom C., President of Springfield Engineers' Club, shaking hands with Mayor James A. Hedrick of Decatur and J. A. Askren, President of Central Illinois Chapter.

GALA OCCASION IN DECATUR

(See photograph)

The 30th was a gala night for Central Illinois Chapter. At 7:30 P. M., a special three car special train was sent by the Chapter to welcome the Springfield contingent which was made up of men not only from Capital Chapter, but also the Springfield Engineers Club and Highway Engineers. John Askren, Mayor J. A. Hedrick, Decatur, members of Central Illinois Chapter and a brass band met the delegation. They paraded through town with a police escort to the A. E. Staley Plant. The hour tour of the plant, under the direction of Andy Reuther, ended with a snack in Staley's new cafeteria.

COB-WEB CHASER—REFRESHER COURSE

CLASSES OPEN TO ALL ENGINEERS

During the past two years, the Illinois Society through its Chapters has done the promotional work and the Division of Extension, University of Illinois, has supplied the leadership in refresher course classes in preparation for the professional engineering examinations. A total of about 650 men and one woman have attended the classes. In a questionnaire answered by a large majority of the fall of 1949 classes, the opinion was expressed that the classes were of real benefit to those who

participated. Fifteen classes in ten different cities have been completed.

A new series of classes are being organized now and will begin meeting immediately after Labor Day, continuing for eleven weeks. This arrangement permits all classes to be finished before the next professional examination which will be given on November 16 and 17, 1950.

From time to time there have been reports that men who are registered and who do not intend to take the examination have taken the refresher course just to "keep their finger in." This action by these men was spontaneous and strictly voluntary. In other words, up to now no suggestion has been made that older men sign up for the course.

Refresher courses now cover in review the basic engineering studies, that is, mathematics, physics, mechanics, hydraulics and kinetics. The professional part covers engineering finance, civil, mechanical, structural and electrical problems. The present refresher courses are primarily review courses. However, some problems may be discussed, for example, pre-stressed concrete, the theory of which may be new to some men. If and when the demand is great enough, instructional courses for college credit will be offered in several engineering fields.

Since the Division of Extension must have a minimum class of fifteen to break even, in some cases several older

men taking the course might mean the difference between holding a class in your Chapter Area or having to pass it up. The cost is nominal—less than \$15.00 including text for a 32 hour review course. The classes are held one night a week for eleven weeks. These courses deserve the serious consideration of older men as well as the younger men. Detailed information as to the time and place is in the hands of your Chapter Secretary. Go back to school between now and Thanksgiving—you might learn something and you will surely “graduate” from the class with a new perspective.

WANTED

In checking over the files of the back copies of the ILLINOIS ENGINEER, we found that we need two or three copies of the May, 1948 issue, Volume XXIV, No. 5. If you have a copy and have no use for it, we would appreciate your sending it to us at I.S.P.E., 631 E. Green St., Champaign, Illinois.

COST OF LIVING INDEX

The correction factor to be applied to the I. S. P. E. Schedule of Minimum Fees and Salaries was 170.2 for June, 1950. The factor is based upon the U. S. Department of Labor's most recent Consumer Price Index.

Design And Supervision Of Construction On Oklahoma Turnpike Awarded To De Leuw, Cather & Company, Chicago

De Leuw, Cather & Company, Chicago, was awarded a contract on June 14 for design and supervision of construction of the 88-mile, \$31,000,000 Oklahoma Turnpike. The road will connect Tulsa and Oklahoma City.

Obituary

(Extracted from Capital Chapter, “Chatter”)

The death of O. K. Berryman has just been reported. “O. K.,” a member of Capital Chapter since 1948, was employed in the Div. of Highways. His passing leaves another gap impossible to fill in the Chapter.

* * *

The many friends of W. S. Ruggles were shocked by the report of his sudden death in Fort Worth, Texas, on June 22nd. Bill was an active member of Capital Chapter until only a few months ago when he accepted a position with a Dallas firm of consulting engineers. His passing is a loss not only to Capital Chapter but to all the engineering profession.

ITEMS OF PERSONAL INTEREST

This column is read and enjoyed. Send in items (a item of a personal nature is good copy) concerning yo self or your friends. Give us the facts. We'll write them up for you.

H. A. Spafford spoke before the Champaign County Chapter on the Legislative Analyst Program on July 1.

* * *

Lee E. Stickler, Junior Representative on the Board of Direction, discussed matters of interest to Juniors and E-I T's at the July 6 meeting of the Champaign County Chapter.

* * *

The Illinois State Water Survey moved into its new Water Resources Building during July. A dedicatio program for the new building is planned for the Fall.

* * *

Mr. R. E. Roberts, formerly of Purdue University, has been appointed Assistant Engineer in charge of hydrologic studies with the Illinois State Water Survey.

* * *

P. E. Roberts and W. A. Oliver of Champaign attended the picnic of the Kewanee Chapter held at Midland Country Club on Saturday, July 29. They were both able to be back at work on Monday morning.

* * *

Joe M. Anderson, of Central Illinois Chapter, took a five day river trip accompanied by a cousin, Max Anderson. Max happens to be a licensed second mate, and a seaman of long standing. They made the 300 mile trip in a 14 ft. outboard motorboat. They put in a little below St. Louis on the Mississippi River, went from there to Cairo. After a little side trip around Cairo they headed up the Ohio River, ending their water travels at Golconda, Illinois. Their nights were passed sleeping on sandbars in the rivers. Joe had a wonderful time and recommends such trips highly as real vacations from those engineering problems and worries.

* * *

At a recent meeting of the Joliet Sewer and Water Utility Commission Jim Whelan announced that the four million dollar sewer and water project was nearly complete and having served as Chairman of the Board for nearly two years, it was time to elect a new Chairman. It would be on the agenda for the next meeting. He also warned that any member absent at that meeting would probably find himself elected Chairman. The result was 100% attendance but they voted to postpone the election indefinitely—Jim is still stuck with the job (Office still voluntary—no pay!).

* * *

A. “Doug” Spicer, State Membership Chairman appears to have fully recovered from his recent appendectomy. He has been doing a lot of traveling between Kewanee and the Boiler Company’s new Pennsylvania

PROFESSIONAL DIRECTORY

DE LEUW, CATHER & COMPANY

CONSULTING ENGINEERS

Transportation, Public Transit and Traffic Problems

Industrial Plants

Grade Separations

Railroads

Expressways

Subways

Tunnels

Power Plants

Municipal Works

150 North Wacker Drive
Chicago 6, Illinois

79 McAllister Street
San Francisco 2, Calif.

ALVORD, BURDICK & HOWSON

CHAS. B. BURDICK

LOUIS R. HOWSON

DONALD H. MAXWELL

Water Works Water Purification Flood Relief

Sewerage Sewage Disposal Drainage Appraisals

Power Generation

CIVIC OPERA BLDG.

CHICAGO 6, ILL.

WM. FECHT & ASSOCIATES, INC.

Electrical Construction Engineers

CONTRACTING

CONSULTING

600 W. Jackson Blvd.,
Chicago 6, Illinois

FInancial
6-3363

JENKINS, MERCHANT & NANKIVIL

Consulting Engineers

Water Systems

Power Development

Municipal Improvements

Sewerage

Flood Control

Industrial Plants

Airports

Traffic Surveys

Recreational Facilities

Investigations and Reports

805 East Miller Street Springfield, Illinois

Tell over 1,800 engineers where your office is. Use this space. The price is reasonable. You can display your firm name here for less than the cost of an average classified ad. A card or letter to the Secretary, 631 East Green Street, Champaign, Illinois, will bring full details.

nt. Doug says, "The 2000 total membership goal is possible but it will be necessary to have the help of every chapter membership committee to succeed."

* * *

President Ekblaw has moved to his new office in the recently completed addition to the Natural Resources building. Furniture is to be new also but has not been delivered. Dr. Ekblaw will be happy to see any visiting members when they are in Champaign-Urbana.

The best example of perfect security is a man serving life term in a federal prison.

Dwight D. Eisenhower

GREELEY AND HANSEN

ENGINEERS

Water Supply, Water Purification, Sewerage, Sewage Treatment, Flood Control, Drainage, Refuse Disposal

220 SOUTH STATE STREET
CHICAGO 4, ILL.

JOHN DOLIO

CONSULTING ENGINEERS

Industrial Plants and Piping
Street Lighting—Electrical Surveys
Air Conditioning—Ventilation
Sewerage—Water Works—Power Plants

208 S. LaSalle Street
Chicago, Illinois

CRAWFORD, MURPHY & TILLY

CONSULTING ENGINEERS

Water Works, Sewerage, Airports, Street Improvements, Traffic Surveys

PHONE: 2-7500

400½ E. ADAMS STREET SPRINGFIELD, ILL.

Use of this space is limited to members and associates of the Society. This is a dignified and excellent way to let engineers know that your firm can always accept another account. The price is very reasonable. A card or letter to the Secretary, 631 East Green Street, Champaign, Illinois, will bring full details.

STATEMENT OF PRINCIPLES REGARDING
COLLECTIVE BARGAINING BY
PROFESSIONAL EMPLOYEES
Adopted by the Board of Directors
National Society of Professional Engineers

June 1950

1. It is definitely unprofessional for a professional engineer, professionally employed, VOLUNTARILY to join a heterogeneous labor union, dominated by, or obligated to, nonprofessional groups. As stated by the Society, through its Board of Directors at Oklahoma City in September 1948, "The individual responsibility and independent judgment required of a Professional Engineer are incompatible with the regimentation fundamentally inherent in unionization."

Nothing in this statement of principle shall be construed as a criticism of engineers who may be forced to join a labor union, against their will, but engineers in this predicament should seek to extricate themselves by due process of law.

Nothing in this statement of principle shall be construed as a criticism of engineers-in-training,

who voluntarily join a labor union when, as a step in their practical engineering training, they are temporarily employed in nonprofessional or sub-professional work, where their fellow workers are organized. When promoted to professional responsibilities, however, the engineer cannot continue his labor union affiliations without sacrifice of professional status.

2. Organizations of professional engineers for collective bargaining, in any form are to be deplored, although their existence, for the present, may be condoned under certain circumstances.

When engineers are treated collectively by an employer they may be compelled to deal with him on the same basis. Employers should appreciate that engineers have individual capacities and talents which should be considered on an individual basis, that the compensation of an engineer should be in proportion to the value of his services and not based on his age, his degrees, or any other yardstick that can be applied collectively, and that an engineer's working conditions should conform to the nature of his work rather than to any general pattern applicable to employees engaged in routine tasks that are subject to standardization.

When employers generally are persuaded that professional employees must be viewed as individuals and not in groups or classes, then NSPE may condemn collective bargaining by professional engineers, without qualification. In the meantime, we advise the young engineer that the existence of collective bargaining by professional engineers in an industry jeopardizes his professional status. Either the employer fails to appreciate the professional nature of his engineers' work, or the employees themselves are not adhering to professional concepts. Therefore, professional engineers and engineers-in-training should not seek employment where professional engineers, professionally employed, bargain collectively.

THE BRIDGE

I am the Bridge.
I am the realization
of an idea centuries old—
the fulfillment of an age-long
desire of men to build them
a means by which to overcome
an obstacle in their wandering
from place to place—the
outgrowth of the stepping stone
and the log over the stream,
and the development of the first
crudely constructed bridge over
the chasm between them and safety—
over the river between them and
the undiscovered country beyond

which beckoned them to come and
share of the earth's varied clime
offering of life sustaining substance,
there to make them a home, sweet home.
My sinews from the bowels of the
earth have been drawn, tempered and
fashioned to the needs of men,
making the way of the toiler less
difficult and more secure, lending
to all the blessing of freedom of
intercourse in calm and storm.
Centuries of thought and endeavor
have given me beauty of design,
strength and simplicity, born of
the God-given soul in men to
achieve perfection.
I am the way from the past to the
future—the link between the here
and there of Hope. I am the symbol
of the greatness of man bent on
discovering the truth and beauty
of things Divine.

—M. F. SHEA

(In the *Registration Bulletin*)

Creating and maintaining good human relations is number one problem in industry today, and I believe will always remain so.

S. C. Ally

LEE I. OSBORN

Engineer and Contractor



Heavy Construction

Bridges

Foundations

Docks & Pile Driving

Drainage & Levee Work

Heavy Excavation

Grading & Paving



P. O. BOX NO. 2

MUSCATINE, IOWA